

Notice of Allowability

Application No.

10/079,992

Examiner

Syed Y. Hasan

Applicant(s)

YAP ET AL.

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/11/2007.
2. ☒ The allowed claim(s) is/are 1 - 30.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

Allowable Subject Matter

1. Claims 1 - 30 are allowed.
2. The following is a statement of reasons for the indication of allowable subject matter:

The present invention of claims 1 - 30 is directed to an audio-video synchronization process that ensures continuity of displaced AV data.

Independent claim 1 identifies the unique distinct feature “ obtaining an initial time stamp value from an initial frame; obtaining a subsequent time stamp value from a subsequent frame; computing an initial parameter based on the initial time stamp value; computing a subsequent parameter based on the subsequent time stamp value; determining if the computed initial and subsequent parameters coincide, and if so outputting corresponding audio and/or video frames for decoding and display.”

Hence claim 1 is allowed.

Since claims 2 - 13 are dependent on claim 1, therefore they are allowed.

Independent claim 14 identifies the unique distinct feature “ a buffer for receiving a plurality of packets having data representing audio and video frames therein; a processor for determining whether an occupancy criterion of the buffer storing said received audio and video frames has been met, wherein the processor obtains an initial time stamp value from an initial frame and from a subsequent frame, computes initial and subsequent parameters based on the respective initial and subsequent time stamp values, and determines whether the computed initial and subsequent parameters

coincide if the occupancy criterion is met, and a decoder for decoding audio and/or video frames for display if the parameters coincide. "

Hence claim 14 is allowed.

Since claims 15 - 26 are dependent on claim 14, therefore they are allowed.

Independent claim 27 identifies the unique distinct feature " (a) computing an initial parameter based on an initial video time stamp of an initial video frame; (b) computing a subsequent parameter based on a subsequent video time stamp value of a subsequent video frame; (c) comparing the computed parameters, a coincidence between the two indicating a valid subsequent video time stamp, and (d) synchronizing an audio frame to the subsequent video frame based on the valid subsequent video time stamp."

Hence claim 27 is allowed.

Since claims 28 is dependent on claim 27, therefore it is allowed.

Independent claim 29 identifies the unique distinct feature " a buffer for receiving a plurality of packets having data representing audio and video frames therein; and circuitry for computing a initial parameter based on an initial time stamp value of an initial video frame, and for computing a subsequent parameter based on a subsequent time stamp value of a subsequent video frame, wherein the circuitry determines whether the computed initial and subsequent parameters coincide, a coincidence between the two indicating a valid subsequent video time stamp, and wherein the processor synchronizes an audio frame to the subsequent video frame based on the valid subsequent video time stamp. "

Hence claim 29 is allowed.

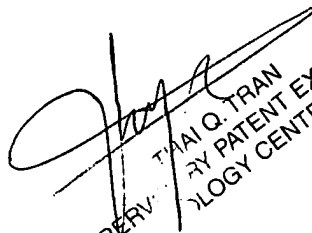
Since claims 30 is dependent on claim 29, therefore it is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Syed Y. Hasan whose telephone number is 571-270-1082. The examiner can normally be reached on 9/8/5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

S. Y. H.
1/3/2008


SUPERV. THAI Q. TRAN
BY PATENT EXAMINER
BIOLOGY CENTER 2600